Product Name: Bifemelane hydrochloride
CAS Number: 62232-46-6
IUPAC Name: 4-(2-Benzylphenoxy)-N-methylbutylamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

- Batch Molecular Formula: \( \text{C}_{18}\text{H}_{23}\text{NO.HCl} \)
- Batch Molecular Weight: 305.84
- Physical Appearance: White solid
- Solubility: water to 100 mM, DMSO to 100 mM
- Storage: Desiccate at RT

2. ANALYTICAL DATA

- TLC: \( R_f = 0.4 \) (Chloroform:Methanol [5:1])
- HPLC: Shows >99.8% purity
- \(^1\text{H NMR:}\) Consistent with structure
- Mass Spectrum: Consistent with structure
- Microanalysis:
  
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<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
<th>Chlorine</th>
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<tr>
<td>Theoretical</td>
<td>70.69</td>
<td>7.91</td>
<td>4.58</td>
<td>11.59</td>
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<tr>
<td>Found</td>
<td>70.61</td>
<td>7.85</td>
<td>4.61</td>
<td>11.64</td>
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Product Information

Product Name: Bifemelane hydrochloride
Catalog No.: 0767
Batch No.: 2

CAS Number: 62232-46-6
IUPAC Name: 4-(2-Benzylphenoxy)-N-methylbutylamine hydrochloride

Description:
Antidepressant MAO inhibitor. Reverses catalepsy induced by tetrabenazine in mice and increases locomotor activity in MPTP-treated marmosets.

Physical and Chemical Properties:
Batch Molecular Formula: \( \text{C}_{18}\text{H}_{23}\text{NO.HCl} \)
Batch Molecular Weight: 305.84
Physical Appearance: White solid
Minimum Purity: \( >99\% \)

Batch Molecular Structure:

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Storage: Desiccate at RT

Solubility & Usage Info:
- water to 100 mM
- DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

